



Material Safety Data Sheet

Kool Mist Formula 78

Section 1 Product / Company Identification

Product Trade Name Kool Mist Formula 78 **MSDS Number** KM-078 (rev. 01)
Synonym / Use Light duty coolant for spray mist systems **Date of Issue** July 12, 2010
Chemical Name Mixture
Chemical Formula Trade Secret

Manufacturer Kool Mist **Technical Support** (562) 246-0949
9218 Norwalk Blvd. **Website** www.koolmist.com
Santa Fe Springs, CA 90670 **CHEMTREC** (800) 424-9300
U.S.A. **Outside the US Call** (703) 741-5500

Section 2 Composition / Information on Ingredients

Chemical Name	CAS Number	Weight (%) Non-Diluted	Weight (%) Diluted	Occupational Exposure Limits	
				TLV (ACGIH)	PEL (OSHA)
Carboxylic acid salt	688188-07-04	30 – 60	< 2	None	None
Water	7732-18-5	20 – 40	> 98	None	None
Triethanolamine	102-71-6	20 – 40	< 1	5 mg/m3	None
Polyalkylene glycol monobutyl ether	9038-95-3	1 – 5	< 0.1	None	None

TLV = Threshold Limit Value; PEL = Permissible Exposure Limit

Section 3 Hazards Identification

EMERGENCY OVERVIEW

This product is considered non-hazardous under normal conditions of use. Excessive exposure to mist may cause sore throat, coughing and mild upper respiratory irritation. Prolonged skin contact with undiluted product may result in transient dryness and mild irritation. Wash hands and exposed skin with mild soap and water after each exposure.

NFPA Rating Health 1 Fire 0 Reactivity 0 **Special Hazard** 0

HMIS Rating Health 1 Fire 0 Reactivity 0 **PPE Code** A

WHMIS Class None

Hazard Category None

Routes of Entry Absorbed through skin. Inhalation and eyes via mist. Ingestion.

Target Organs Lungs, respiratory system, and eyes.

Section 3 Hazards Identification

Signs and Symptoms of Overexposure

Inhalation	Excessive inhalation of product mist may cause mild irritation.
Skin Contact	Essentially non-irritating to the skin. Prolonged exposure to undiluted product may cause mild irritation and dryness.
Eye Contact	Mist may cause mild eye irritation in sensitive individuals.
Ingestion	Non-hazardous when ingested. May cause mild irritation to the gastro-intestinal (GI) tract if excessive quantities are ingested.

Medical Conditions Aggravated by Exposure	In sensitive individuals certain medical conditions may be aggravated by prolonged exposure, including dry skin and/or dermatitis, and pre-existing chronic upper respiratory diseases such as bronchitis, emphysema and asthma.
--	--

Section 4 First Aid Measures

Inhalation	Remove to fresh air. If coughing and irritation develop seek medical attention.
Eye Contact	Flush with large amounts of water until irritation subsides, at least 15 minutes. Seek medical attention if irritation persists.
Skin Contact	Perform normal, good hygiene practices. Wash hands and exposed skin with mild soap and water after each exposure
Ingestion	Emergency first-aid procedures are not normally required following ingestion. However, this product may cause temporary irritation to the gastro-intestinal (GI) tract if excessive quantities are ingested. DO NOT INDUCE VOMITING unless directed by a physician.
Note to Physician	Kool Mist Formula 78 is a water soluble synthetic soap compound used as an industrial metal working lubricant. It has low general toxicity and irritancy.

Section 5 Fire Fighting Measures

NFPA Classification Not classified by the National Fire Protection Agency (NFPA).

Flammable Properties and Explosive Limits

Flash Point	Non-flammable.	UFL / UEL	Non-flammable.
Autoignition	Non-flammable.	LFL / LEL	Non-flammable.

Extinguishing Media Dry chemical, carbon dioxide (CO₂), water fog, or foam.

Fire / Explosion Hazard Non-flammable. This product will not support combustion and does not pose a significant fire and/or explosion hazard.

Special Firefighting Equipment No special firefighting equipment is necessary. Use extinguishing media appropriate for the surrounding fire.

Hazardous Products of Combustion None.

Section 6 Accidental Release Measures

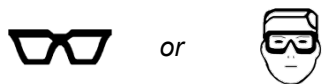
Personal Precautions	In the event of a spill, comply with applicable health, safety and environmental regulations. Eliminate sources of ignition and ventilate the area. Selection and use of personal protective equipment should be in accordance with <i>Section 8 (Exposure Controls / Personal Protection)</i> .
Environmental Precautions	Environmental precautions are not normally required. This product does not pose a significant environmental hazard.
Clean-Up Procedures	Spills may be cleaned using water. Thoroughly rinse the affected area avoiding sewers and drains. Absorb remaining material and place in an approved hazardous waste container. Dispose of in accordance with <i>Section 13 (Disposal Considerations)</i> of this MSDS.

Section 7 Handling and Storage

Handling Precautions	Specific handling precautions are not required. Avoid prolonged contact with undiluted product. Assure proper respiratory protection when using this product and/or when cleaning spills. Refer to <i>Section 8 (Exposure Controls / Personal Protection)</i> for further information.
Storage Requirements	Store in a cool, dry area below 100° F. Store away from food and beverages. Keep away from reactive materials Always separate materials by hazard class. Refer to <i>Section 10 (Stability and Reactivity)</i> for incompatibility information and conditions to avoid.

Section 8 Exposure Controls / Personal Protection

Engineering Controls	Maintain sufficient mechanical or natural ventilation. Use local exhaust if necessary.
Occupational Exposure Limits	Triethanolamine (102-71-6): TWA: 5 mg/m ³ from ACGIH (TLV)
Respiratory Protection	None required under normal conditions of use. Selection and use of proper respiratory protection should be based on the level of exposure as measured by vapor sampling. Use OSHA 29 CFR 1910.134 or ANSI Z88.2 approved face masks, if required.
Eye Protection	Wear safety glasses with side shields or splash goggles when applying product. Selection and use of eye protection should comply with ANSI Z87.1-1-1989 and applicable OSHA standards.
Skin Protection	Under normal conditions, protective gloves and a clean body covering are sufficient when handling undiluted product.



Section 9 Physical and Chemical Properties

Appearance / Color	Green viscous liquid	Odor	Mild, pleasant odor
Viscosity	N/A	Odor Threshold (ppm)	N/A
Specific Gravity	1.104	Melting / Freezing Point	N/A
Boiling Point	212° F (100° C)	pH (1% soln/water)	8
Evaporation Rate	N/A	Vapor Density (air = 1)	>1

Section 9 Physical and Chemical Properties

Density (g/ml)	N/A	Vapor Pressure (mm Hg)	23.0 hPa
Solubility in Water	100%	% Volatile by Vol. / Wt.	N/A

Section 10 Stability and Reactivity

Stability	Stable under normal conditions of use.
Incompatibility	Avoid contact with strong oxidizing agents. Keep away from nitrites which may result in nitrosamine formulation.
Conditions to Avoid	None in designed use.
Hazardous Polymerization	Will not occur.
Hazardous Products of Decomposition	When heated to decomposition product may release CO, CO ₂ and irritating aldehydes. Fumes can react with oxidizing materials forming NO and NO ₂ .

Section 11 Toxicological Information

Acute / Chronic Exposure	Excessive exposure may cause a sore throat, coughing and mild upper respiratory irritation. Prolonged skin contact with undiluted product may result in dryness and mild irritation.
---------------------------------	--

Toxicological Data on Ingredients

LC₅₀ / LD₅₀	Triethanolamine, CAS No.: 102-71-6:	Oral (LD ₅₀): 5846 mg/kg [Mouse] Oral (LD ₅₀): 2200 mg/kg [Rabbit] Skin (LD ₅₀): 20 ml/kg [Rabbit]
--	-------------------------------------	--

Carcinogenicity	Triethanolamine, CAS No.: 102-71-6:	IARC: Group 3 (Not Classifiable)
------------------------	-------------------------------------	----------------------------------

Synergistic Products	No relevant information exists regarding the toxicological interactions of this product.
-----------------------------	--

Irritancy of Product	Product has a low degree of irritancy.
-----------------------------	--

Sensitization	Non-sensitizing.
----------------------	------------------

Teratogenicity	Non-teratogenic.
-----------------------	------------------

Mutagenicity	Non-mutagenic.
---------------------	----------------

Reproductive Toxicity	No additional information is available. This product is not expected to cause adverse reproductive system effects.
------------------------------	--

Section 12 Ecological Information

Ecotoxicity	Product does not pose a significant environmental hazard.
--------------------	---

Mobility	No additional information is available.
-----------------	---

BOD5 / COD	No additional information is available.
-------------------	---

Biodegradation	No additional information is available.
-----------------------	---

Section 13 Disposal Considerations

Disposal Method May be disposed in an approved landfill in accordance with local, state and federal regulations. If this product has become contaminated in service, place in an approved hazardous waste container. Seal and properly label the container, and send to a Transportation, Storage and Disposal (TSD) facility via an approved waste hauler.

Section 14 Transportation Information

U.S. Department of Transportation (DOT)

Shipping Name Not a U.S. Department of Transportation (DOT) controlled substance.

Hazard Class N/A **UN / NA Number** N/A

Label / Placard N/A **Packing Group** N/A

International Dangerous Goods Information

TDG / TDGA Not regulated as a dangerous good according to the Canadian Transportation of Dangerous Goods (TDG) Act.

IMO / IMDG Not regulated as a dangerous good according to the International Maritime Organization's (IMO) dangerous goods code.

ICAO Not regulated as a dangerous good according to the International Civil Aviation Organization (ICAO) technical instructions.

Special Provisions This product does not require special transport provisions.

Section 15 Regulatory Information

TSCA (8b) Inventory All ingredients are listed on the Toxic Substances Control Act (TSCA) inventory.

CERCLA Reportable Quantity (RQ) This product does not contain any hazardous substances in excess of the CERCLA de minimis reportable quantity.

California Prop. 65 This product does not contain any substances known to the State of California to cause cancer.

State RTK Lists Triethanolamine, (CAS No.: 102-71-6): MA, MN, PA, RI

Superfund Amendments and Reauthorization Act (SARA) Title III

Section 302 / 304 This product does not contain any Extremely Hazardous Substances (EHS) as defined and listed under SARA Title III, Sections 302 and 304:

Section 311 / 312 The following Hazard Categories are applicable to this product, as defined and listed under SARA Title III, Sections 311 and 312:

<u>Acute Hazard</u>	No
<u>Chronic Hazard</u>	No
<u>Fire Hazard</u>	No
<u>Reactivity Hazard</u>	No
<u>Pressure Hazard</u>	No

Section 15 Regulatory Information

Superfund Amendments and Reauthorization Act (SARA) Title III

Section 313 This product does not contain any substances subject to the reporting requirements of SARA Title III, Section 313:

International Regulatory Classifications

WHMIS (Canada) This product does not contain any substances controlled under the Canadian Workplace Hazardous Materials Information System (WHMIS).

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR). This MSDS contains all information required by those regulations.

DSL (Canada) All materials and ingredients used in this product are listed, or exempt from inclusion on the Canadian Domestic Substances List (DSL).

EINECS (EC) All materials and ingredients used in this product are listed, or exempt from inclusion on the European Inventory of Existing Commercial Chemical Substances (EINECS).

WGK (Germany) Water Hazard Class: WGK 1: Slightly hazardous to water

European Labeling in Accordance with EC Directives

Hazard Symbols Xi: Irritant



Risk Phrases R36/37/38: Irritating to the eyes, respiratory system and skin.

Safety Phrases S2: Keep out of reach of children
S24/25: Avoid contact with skin and eyes
S36/37: Wear suitable protective clothing and gloves

Section 16 Other Information

Reason for Issue	New MSDS	Date of Issue	July 12, 2010
Prepared By	Compliance Consulting Group, Inc.	Supersedes	All previous
Revision History	Rev. 01 (July 12, 2010): ANSI Z400.1-2004 MSDS. Complies with OSHA 29 CFR 1910.1200(g), EC and WHMIS requirements.		

DISCLAIMER

As of the date of this document, Kool Mist believes the information contained herein to be accurate and reliable, and is provided in order to comply with applicable Federal, State and international regulations. This document is intended as a guide for the safe handling, storage and use of this material under normal conditions of use. No representation, warranty or guarantee, either express or implied, is intended or given. Kool Mist does not accept liability for any loss, injury or damage resulting from the use of this product.